

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: KYLE M. HANSON ET AL.

APPLICATION NO.: 09/882,293

FILED: JUNE 15, 2001

FOR: PROCESSING TOOLS, COMPONENTS OF  
PROCESSING TOOLS, AND METHOD OF MAKING  
AND USING SAME FOR ELECTROCHEMICAL  
PROCESSING OF MICROELECTRONIC  
WORKPIECES

EXAMINER: ARUN S. PHASGE

ART UNIT: 1753

CONF. NO: 7059

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Supplemental Information Disclosure Statement  
Before First Office Action after the Filing of a Request for Continued Examination  
Under 37 C.F.R. § 1.114 – 37 C.F.R. § 1.97(b)(4)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

1. Timing of Submission

This information disclosure is being filed before the mailing date of a first Office action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 [37 C.F.R. § 1.97(b)(4)]. The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information☒ Copies of the following references are enclosed:

- ☐ All cited references  
☒ References not marked by asterisks  
☐ The following:

☒ Copies of the following references can be found in parent U.S. Application No. 09/804,697, which issued on 12/09/2003 as Pat No. 6,660,137:

- ☐ All cited references  
☒ References marked by asterisks  
☐ The following:

3. Effect of Information Disclosure Statement (37 C.F.R. § 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application

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does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment

No fees are believed due because this Information Disclosure Statement is being filed before the mailing date of the first Office Action.

☐ Applicant further submits that no fee is due in light of the following certification under 37 C.F.R. § 1.97(e) (check only one):

☐ In accordance with 37 C.F.R. § 1.97(e)(1), the undersigned hereby states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; or

☐ In accordance with 37 C.F.R. § 1.97(e)(2), the undersigned hereby states that no item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of this statement.

However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-0665.

5. Patent Term Adjustment (37 C.F.R. § 1.704(d))

☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

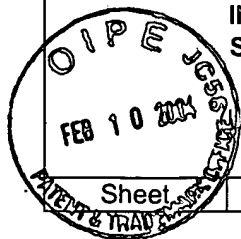
Respectfully submitted,  
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Date: February 9, 2004

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Examiner Name	Arun S. Phasge
Attorney Docket No.	29195-8159US

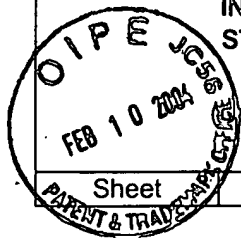
**U.S. PATENT DOCUMENTS**

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		NUMBER	Kind Code (if known)			
		09/679,928 ✓		Woodruff et al.	10/05/00	
		60/129,055 ✓		McHugh	04/13/99	
		60/143,769 ✓		McHugh	07/12/99	
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Group Art Unit	1753
Examiner Name	Arun S. Phasge
Attorney Docket No.	29195-8159US

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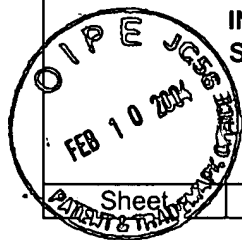
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		NUMBER	Kind Code (if known)			
		*4,576,689		Makkaev et al.	03/18/86	
		*4,634,503		Nogavich	01/06/87	
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		5,222,310		Thompson et al.	06/29/93	
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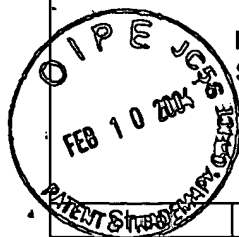
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		Office	NUMBER	Kind Code (if known)				
		WO	00/02808	✓	Semitool, Inc.	01/20/00		
		WO	*00/61498		Semitool, Inc.	10/19/00		
		WO	*00/61837		Semitool, Inc.	10/19/00		
		WO	01/90434	✓	Semitool, Inc.	11/29/01		
		WO	02/099165	✓	Semitool, Inc.	12/12/02		
		WO	02/097165	✓	Semitool, Inc.	12/05/02		
		WO	*02/02808		Semitool, Inc.	01/20/00		
		WO	*02/045476		Semitool, Inc.	06/13/02		

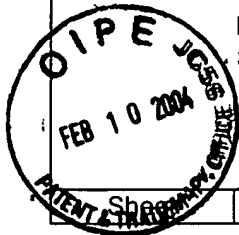
**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
		*LEE, TIEN-YU TOM et al., "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEEE Transactions On Components, Packaging and Manufacturing Technology – Part B, February 1996, pp 131-137, Vol 19, No. 1, IEEE	
	✓	LOWENHEIM, FREDERICK A., "Electroplating," January 1979, 12 pgs, McGraw-Hill Book Company, USA	

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		*RITTER, G., et al., "Two-And Three-Dimensional Numerical Modeling of Copper Electroplating for Advanced ULSI Metallization," June 1999, 13 pgs, E-MRS Conference Symposium M. <i>Basic Models to Enhance Reliability</i> , Strasbourg, France	
	/	PCT International Search Report for PCT/US02/17840, Applicant: Semitool, Inc., March 2003, 5 pgs	

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